

CLAIMS

1. A foldable loop assembly comprising at least four links, each said link having a first geared end defining a rotational axis line and a second geared end defining a rotational axis line;

wherein said first geared end of any one of said links is rotatably engaged to said second geared end of another of said links in order to define at least four pairs of rotatably engaged geared ends such that said first geared end axis line and said second geared end axis line of each said pair of engaged gear ends lie in a single plane for any rotational positions thereof;

wherein each pair of engaged gear ends define a vector which is orthogonal in direction to the single plane in which said axis lines of said pair of engaged gear ends lie;

wherein the vector defined by any of said engaged gear end pairs and the vector defined by any other engaged gear end pair together define an angle which remains constant in any folded condition of said assembly.

2. The assembly of claim 1, wherein each of said geared ends comprises at least one beveled gear.

3. The assembly of claim 1, wherein each of said pairs of engaged gear ends is retained within a hub element.

4. The assembly of claim 3, wherein each said hub element includes a slot through which said link depending from the gear end retained therewithin rotatably extends.

5. The assembly of claim 1, further including at least one covering element selectively attached to at least one of said links.

6. The assembly of claim 5, wherein said at least one covering element includes a first outside surface having a first visual presentation and a second outside surface having a second visual presentation different from said first visual presentation.

7. The assembly of claim 6, wherein said assembly is foldable in a first folded condition such that only said first visible presentation of said at least one covering element is exposed and in a second folded condition such that only said second visible presentation of said at least one covering element is exposed.

8. The assembly of claim 1, whereat least one of said links has a central bent portion.

9. The assembly of claim 8, further including at least one covering element selectively attached to said at least one of links.

10. The assembly of claim 9, wherein said at least one covering element is made of a flexible material.

11. The assembly of claim 10, wherein said at least one covering element includes a first outside surface having a first visual presentation and a second outside surface having a second visual presentation different from said first visual presentation.

12. The assembly of claim 1, wherein each of said geared ends comprises at least one spur gear.

13. The assembly of claim 12, wherein each of said pair of geared ends are engaged by means of a linear gear.

14. The assembly of claim 13, wherein each of said pairs of said engaged gear ends and said corresponding linear gears are retained within a hub element.

15. The assembly of claim 14, wherein said at least four links comprise an even number of links.